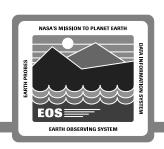


V0 Data Migration Tom Dopplick

16 February 1995

V0 Data Migration Topics



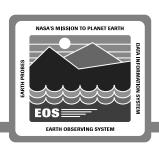
- External Interactions
- Key Drivers
- Assumptions
- Organization
- Methodology
- Incremental Migration
- Data Migration Plan
- Open Issues

Interactions with DAACs and ESDIS



- DAAC Manager Meetings
- DAAC User Working Group Meetings
- ECS DAAC Scientists and Engineers routine interactions with DAAC staff
- V0 Data Migration Workshop
- Weekly meetings with Greg HunoIt/ESDIS

Data Migration Key Drivers



User Satisfaction

- No degradation in existing services
- Prepare for enhanced ECS services
- Smooth transition from V0 to V1

Operations

- Automate data integrity assurance process
- Refresh DAAC archives
- Minimize risk and disruption to ongoing operations
- Floor space problems in 98-99

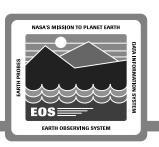
Technical

Support and leverage data modeling effort

Programmatic

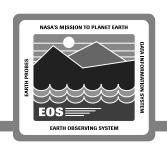
 Move toward compliance with Federal Geographic Data Committee standards

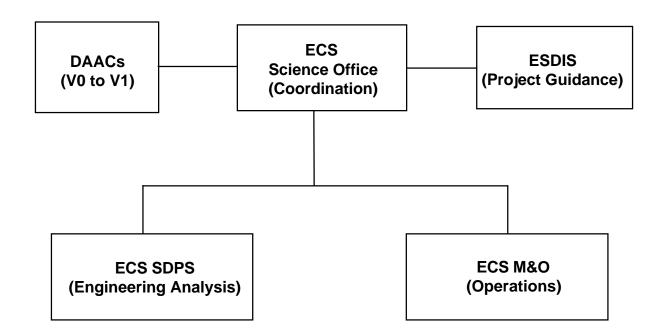
Data Migration Assumptions



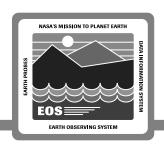
- 1) Data are always available from V1 (V0 + ECS)
- 2) Gradual transition of V0 to ECS services not turnkey
- 3) Data migrate to V1 at the current level of service or higher
- 4) Science Data Plan defines candidates for migration
- 5) Release A data require no billing
- 6) Data migration plans being developed jointly between the DAAC, ESDIS, and ECS
- 7) Assume that data migration begins at initial Release A Operations (late 1996) and concludes at end of Release B operations (late 1999)

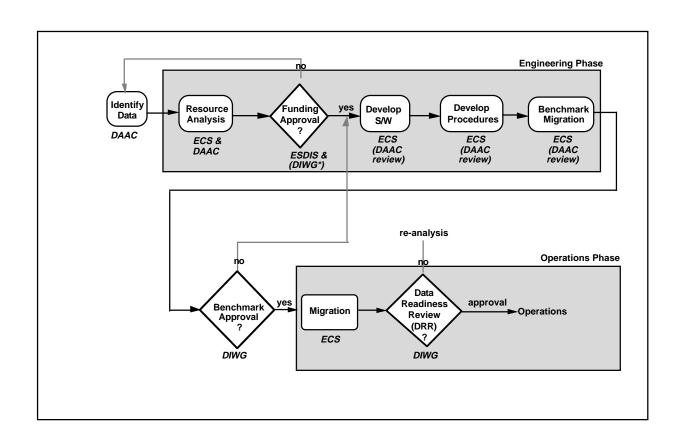
Organization





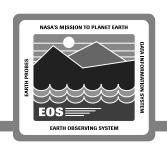
Methodology for Migrating V0 Data





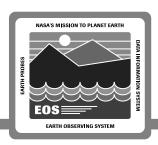
- Ad Hoc Data Integration Working Group (DIWG)
 - DAAC Mgt, DAAC Science, ESDIS, ECS
- Data Migration process documented in Data Migration Plan

Incremental Migration



Migration Step	# Data Sets	Notes
Pilot Migration	at least 1 data product per DAAC	- sample granules; not operational
Release A Data Sets	3 data sets per Release A DAAC	- operational migration at start of Release A
High Priority Data Sets	about 180 data sets	- operational migration during Release A and Release B
Remaining V0 Data Sets	about 435 data sets	- operational migration completed by end of Release B

Pilot Data Migration



- Prototype data migration to understand resource impact
- NOT intended to be for operational use
- Technical analysis of 15-20 data sets; translation to HDF for selected data sets
- Pilot Data Migration candidates were suggested by ECS to provide breadth of data types and support system test scenarios
- DAAC reviewed candidates and, in some cases, suggested alternatives
- Shadow migration of 4D Assimilation data into GSFC DAAC

Release A Data Sets



Volume

GSFC: 842 GB (CZCS 600 GB)

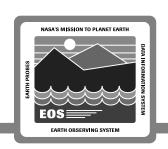
LaRC: 784 GB (ISCCP Dx 600 GB)

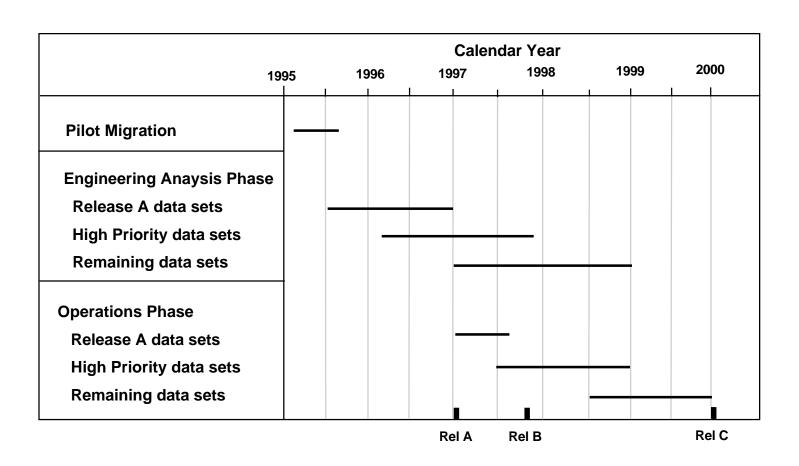
MSFC 193 GB

DAAC	Data Set	
GSFC	TOMS-nimbus 7	
GSFC	CZCS level 1	
GSFC	AVHRR Pathfinder	
LaRC	ERBE	
LaRC	ISCCP D-x, D-1,D-2	
LaRC	SAGE II level 2&3	
MSFC	SSM/I Pathfinder	
MSFC	TOVS Pathfinder	
MSFC	SMMR Pathfinder	

TOTAL 1819 GB

Data MigrationTimeline

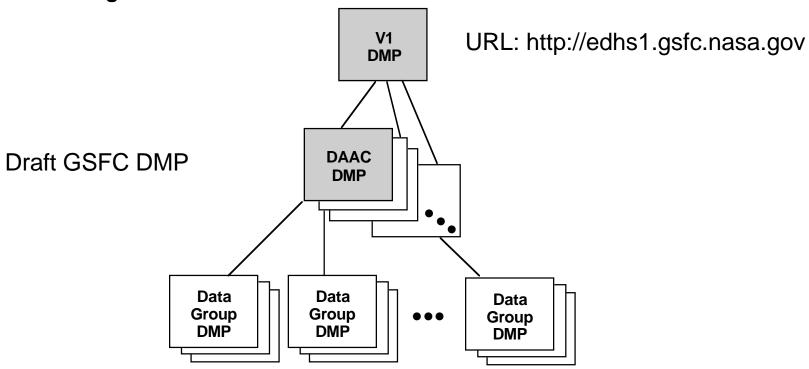




Data Migration Plan Hierarchy

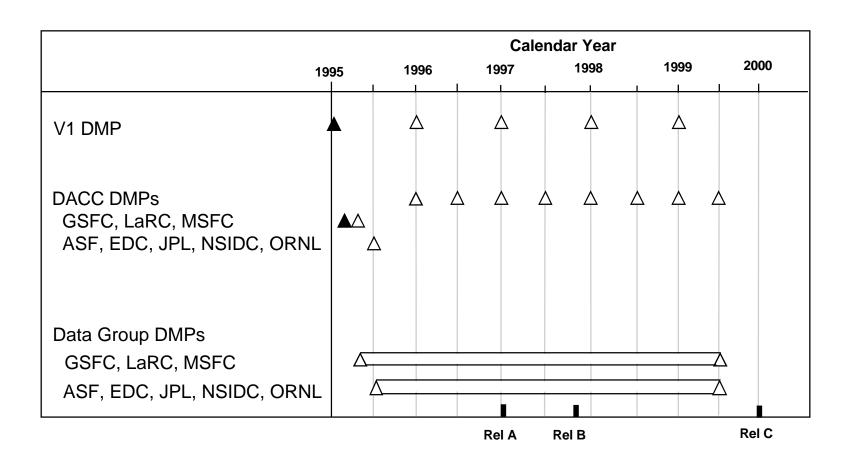


- •High level DAAC Migration Plan and lower level data "group" plans
- •DMP will point to many other references
- Living document

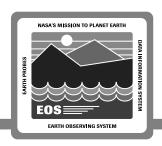


Data Migration Plan Timeline





Open Issues



- No ECS archive capability until Release A installation and acceptance
- High priority data sets need further stratification
- ECS and DAAC responsibilities need to be better delineated
- Processing workloads for migration need to be identified for each DAAC